

Product datasheet for **SC116878**

GCHFR (NM_005258) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCHFR (NM_005258) Human Untagged Clone
Tag:	Tag Free
Symbol:	GCHFR
Synonyms:	GFRP; HsT16933; P35
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005258 edited ATGCCCTACCTGCTCATCAGCACCCAGATCCGCATGGAGGTGGGCCCACTATGGTGGGC GATGAACAGTCGGATCCAGAGCTGATGCAGCATCTGGGGCTTCAAAGAGAAGAGCCTTG GGAAACAACCTTTATGAATACTACGTTCGATGACCCTCCCCGCATAGTCTGGACAAGCTG GAACGCAGGGGCTTCCGTGTGCTGAGCATGACGGGGTGGGCCAGACGCTGGTGTGGTGT CTGCACAAGGAGTGA
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005258 unedited TTTGTAAATACGACTCACTATAGGGCGCCGCAATTCGGCACGAGGCCTCGTGCCGAATT CGGCACGAGGGGACTCCCAGCTGCGCGTCGCAGTCCCGACGCGAGAAGGGCTGGAGTCG GGTCCAGCCTAGAGCCCCGGTGGGAGCCAGGCCGGGACGCGTGACCATGCCCTACCT GCTCATCAGCACCCAGATCCGCATGGAGGTGGGCCCACTATGGTGGGCGATGAACAGTC GGATCCAGAGCTGATGCAGCATCTGGGGCTTCAAAGAGAAGAGCCTTGGGAAACAACCT TTATGAATACTACGTTCGATGACCCTCCCCGCATAGTCTGGACAAGCTGGAACGCAGGGG CTTCCGTGTGCTGAGCATGACGGGGTGGGCCAGACGCTGGTGTGGTGTCTGCACAAGGA GTGACCTTCTCATGCTGATTTGCAGACGGGGCACCCCTGTGGAGGGGCTGCTGTGGGCC TGACCTCCAAGCTCCTGCCTCACCGTCTGCCTTGTCTCTCTTCCCAAATCATACCCGC CATGGGCCAGCCCCAAAGGGCAGTGAATGGCCTTCTCTGAAACCCTGCGTCAAGCAGTG GGAGAGGGCAGTCCCGGTGCCCTGGTGTCTCCAGCTGCCCTCCTGCTTCGGGCCTGGGC CGNAGGGCCTGTGTANGCCATGTTCTTNCGGCAGCTGCCCGGGCCNNGAGCTGGCACTN CAGCGGCCCTGGCGCGTGGCTCCTGCATAGCTAGCCCAAGCAATAAAGGGCTGTGATGA GTGGCTGCGCCTGTGCTCTGCTTGTGCACCGGACTCTGGACTCTACCCTGCGGAGCGTC CCTGGGGGCTGGCCCTTNCGTGGAGGGCGCCAGCCTGGNTGGACGCTCTGCGCAAACC CAGCCCTATACTATGNTGGGGTAAGGAGGAAAATCTAA



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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005258 unedited</p> <pre>TGACCCCTTACCCTACATAGGTATAAGGTGCTGGGCTCTGCCGCAGAGCGCTCCACCCAG GCCTGGCGCCCTCCCAGGAGTGGGCAGACCCCCAGGGAAACGCTCCGCAGGGTGAGAGT CCCAGAGTCCGTGCACAAGCAGAGCACAGGCGCAGCCACTCATCACAGCCCTTTATTGGC TTGGGCTAGCTATGCAGGAGCCACGCGCCAGGGCCGCTGGAGTGCCAGCTCCGGCCCGG GCAGCTGCCCGAGGAACATGGCCTACACAAGGCCCTCGGCCAGGCCCGAAGCAGGAGG GCAGCTGGGAGCACCCAGGCACCCGGGCACTGCCCTCTCCCACTGCTTGACGCAGGGTTTC AGAGAAGGCCATTCACTGCCCTTTGGGGCTGGGCCATGGCGGTGATGATTTGGGAAGAG AGGAGCAAGGCAGACGGTGAGGCAGGAGCTTGGAGGTCAGGGCCACAGCAGCCCTCCA CAGGGGTGCCCGTCTGCAAATCAGCATGAGAAGGTCCTCTTGTGCAGACACCACACC AGCGTCTGGCCACCCCGTCATGCTCAGCACACGGAAGCCCTGCGTTCAGCTTGTC AGGACTATGCGGGGAGGGTCATCGACGTAGTATTCATAAAAGTTGTTTCCAAGGCTCTT CTCTTTGAAGCCCCAGATGCTGCATCAGCTCTGGATCCGACTGTTTCATCGCCACCATA GTGGGGCCACCTNCATGCGGATCTGGGTGCTGATGAGCAGGTAGGGCATGGTGCACCCG GTCCCGGCTGGCTCCCACCGGGGCTCTAGCTGGACCGCGACTCCAACCCTTNTCGCGT TGGGACTGCGAACCGCAACTGGGAGTCCCTCGTGCCGAATTCCGGACGAAGCCCTCTT GCCGAATTCGCGCCGNCCTTATATGAGTGGTATAACAAATCTGGACGTTACTAAAGAGC CTGCTTATTAGACTTCN</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005258
Insert Size:	1090 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_005258.2 , NP_005249.1
RefSeq Size:	713 bp
RefSeq ORF:	255 bp
Locus ID:	2644
UniProt ID:	P30047
Cytogenetics:	15q15.1

Gene Summary:

GTP cyclohydrolase I feedback regulatory protein binds to and mediates tetrahydrobiopterin inhibition of GTP cyclohydrolase I. The regulatory protein, GCHFR, consists of a homodimer. It is postulated that GCHFR may play a role in regulating phenylalanine metabolism in the liver and in the production of biogenic amine neurotransmitters and nitric oxide. [provided by RefSeq, Jul 2008]